

**Amendments to the Claims**

The following listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims**

- 1 (Currently Amended). A system, comprising:
- a graph-decoder based speech recognition mechanism for recognizing a word sequence, from input speech data, based on a language model using a graph decoder, the graph-decoder based speech recognition mechanism having a recognition acceptance mechanism to determine whether the graph decoder based speech recognition mechanism fails; and
- a keyword based speech recognition mechanism for recognizing, when, ~~when~~ the graph-decoder based speech recognition mechanism fails, the word sequence, the keyword based speech recognition mechanism including:
- a keyword spotting mechanism to detect, using at least one acoustic model, at least one keyword from the input speech data based on a keyword list; and
- a keyword based recognition mechanism to recognize the word sequence using the at least one keyword, detected by the keyword spotting mechanism, based on the language model.

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1           2(Currently Amended). The system according to claim 1, wherein the graph  
2 decoder based speech recognition mechanism comprises:  
3           a graph decoder for recognizing the word sequence from the input speech data  
4 based on at least one acoustic feature to generate a recognition result, the recognizing  
5 being performed according to the at least one acoustic ~~model~~ model and the language  
6 model; and

7           the recognition acceptance mechanism for determining whether to accept the  
8 recognition result generated by the graph decoder based speech recognition  
9 mechanism or to activate, when the recognition result from the graph decoder based  
10 recognition mechanism is not accepted, the keyword based speech recognition  
11 mechanism.

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1           3(Previously Presented). The system according to claim 1, further comprising an  
2 acoustic feature extractor to extract the at least one acoustic feature from the input  
3 speech data.

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1           4(Currently Amended). The system according to claim 2, wherein the keyword  
2 spotting mechanism is activated by the recognition acceptance mechanism, ~~a keyword~~  
3 ~~based recognition mechanism for recognizing the word sequence using the at least one~~  
4 ~~keyword, detected by the keyword spotting mechanism, based on the language model.~~  
5 if the recognition result from the graph decoder based recognition mechanism is not  
6 accepted.

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1 5(Currently Amended). A method, comprising:  
2 recognizing, by a graph decoder, a word sequence from input speech data based  
3 on at least one acoustic features, the recognizing being performed using at least one  
4 acoustic model and a language model;  
5 determining, by a recognition acceptance mechanism, whether to accept the  
6 word sequence or to activate a keyword spotting mechanism;  
7 detecting, by the keyword spotting mechanism when activated, at least one  
8 keyword, according to a keyword list, from the input speech data based on the at least  
9 one acoustic model; and  
10 recognizing, by a keyword based recognition mechanism, the word sequence  
11 using the at least one keyword, ~~detected by the detecting~~, based on the language  
12 model.

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1 6(Previously Presented). The method according to claim 5, further comprising:  
2 receiving the input speech data; and  
3 extracting, by an acoustic feature extractor, the at least one acoustic feature from  
4 the input speech data.

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1 7(Currently Amended). A computer-readable medium encoded with a program,  
2 the program, when executed, causing:  
3 recognizing, by a graph decoder, a word sequence from input speech data based  
4 on at least one acoustic features, the recognizing being performed using at least one  
5 acoustic model and a language model;

6 determining, by a recognition acceptance mechanism, whether to accept the  
7 word sequence or to activate a keyword spotting mechanism;  
8 detecting, by the keyword spotting mechanism when activated, at least one  
9 keyword, according to a keyword list, from the input speech data based on the at least  
10 one acoustic model; and  
11 recognizing, by a keyword based recognition mechanism, the word sequence  
12 using the at least one keyword, ~~detected by the detecting,~~ based on the language  
13 model.

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1 8(Previously Presented). The medium according to claim 7, the program, when

2 executed, further causing:

3 receiving the input speech data; and

4 extracting, by an acoustic feature extractor, the at least one acoustic feature from

5 the input speech data.